



City of Chicago
Richard M. Daley, Mayor

Department of Water

John R. Bolden
Commissioner

Joseph Szawica
Deputy Commissioner

Bureau of Water Operations
1000 East Ohio Street
Chicago, Illinois 60611
(312) 744-3700 (VOICE)
(312) 744-0761 (FAX)

US EPA RECORDS CENTER REGION 5



412401

April 30, 1993

Ms. Rose Claus
956 East 138th Street
Chicago, Illinois 60627

Dear Ms. Claus:

The Chicago Department of Water wishes to inform you of the results of analyses performed on water samples collected from your home which is supplied by a private well. Water samples were collected over three separate dates - March 19, March 30 and April 5, 1993 in order to verify our findings. The Department's recommendation is that said well water may not be used as a potable source for drinking or food preparation without taking special precautions.

Our findings indicate bacteriological contamination in the well water supply. This implies that either some local contamination is entering the well itself or the ground water supply to the well. Although no chemical contamination was evident in the samples collected, the bacteriological contamination gives ample reason for concern in that this general area was once the site of a landfill with questionable contents. If this water is to be used for drinking and/or used for any food or drink preparations, it should be boiled vigorously for five (5) minutes prior to use. Appended are the results of the analyses performed by the Water Purification Laboratories.

Sincerely,

John R. Bolden
Commissioner

Originated by:

Fred Schultz

Director of Water Quality Surveillance

Approved by:

Carlton M. Duke
Engineer of Water Purification

JRB/CMD/FS/cb



INTER OFFICE CORRESPONDENCE

Department of Water
Bureau of Water Operations
1000 E. Ohio St.

Date March 25, 19 93

TO: L. McMillan, Director
Water Purification Labs

FROM: E.P. Flanagan,
Chief Microbiologist

SUBJECT: Maryland Manor Samples

On March 19, 1993, two bacterial samples collected at 956 E. 138th St. were submitted to the Microbiology Laboratory for analysis and the results follow:

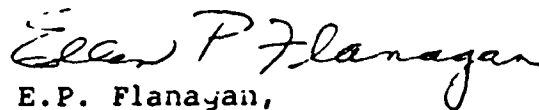
	1. Q1272	2. Q1273
HPC	2200	2600
TC MPN	2.2	2.2
TC MF	0.0	1.0
FC MF	0.0	0.0
FS MF	7.0	1.0

Coliform were isolated and identified as Klebsiella pneumoniae (non-fecal), and Levinea amalonaticus (citrobacter).

A non-coliform identified as aeromonas hydrophila was also isolated from one of the samples.

Klebsiella and citrobacter are coliforms found in water and soil. Only rarely do they cause natural infections. Aeromonas is found in surface water and is not generally associated with indicators of pollution such as the coliform.

The bacterial results after the 5 min. flush were virtually unchanged.


E.P. Flanagan,
CM

Originated by:


D. Ptak, MBIV

EPF:dw

INTER OFFICE CORRESPONDENCE

Department of Water
Bureau of Water Operations
1000 E. Ohio St.

Date April 7, 19 93

TO: L. McMillan, Director
Water Purification Labs

FROM: E.P. Flanagan,
Chief Microbiologist

SUBJECT: Maryland Manor Samples (Hoxie)

On March 30, 1993, two bacterial samples collected at 956 E. 138th St. were submitted to the Microbiology Laboratory for analysis. These are the resamples of those taken on March 19, 1993 and the results follow:

	1. <u>Q1735</u>	2. <u>Q1736</u>
HPC	3300	1700
TC-MPN	240	2400
TC-MF	34	58
FC-MF	1	2
FS-MF	78	62

Coliform were isolated and identified as Klebsiella oxytoca, Citrobacter amalonaticus, and E. coli A.D. (Shigella alkalescens dispar group).

The non-coliform Aeromonas hydrophila was also isolated.

In addition, both samples were tested with Colilert and Colisure in the P.A. format and were Coliform positive and EC negative.

E.P. Flanagan
E.P. Flanagan,
Chief Microbiologist

Originated by:

D. Ptak
D. Ptak, MBIV

EPF:dw

INTER OFFICE CORRESPONDENCE

Department of Water
Bureau of Water Operations
1000 E. Ohio St.

Date April 12, 19 93

TO: L. McMillan, Director of
Water Purification Labs

FROM: E. Flanagan,
Chief Microbiologist

SUBJECT: Maryland Manor Samples (Hoxie)

On April 5, 1993, four bacterial samples collected at 956 E. 138th St. were submitted to the Microbiology Laboratory for analysis. This is the third set from this area. The others were taken on March 19, and March 30, 1993. The results follow:


	1. <u>Q1771</u>	2. <u>Q1772</u>	3. <u>Q1773</u>	4. <u>Q1774</u>
HPC	1100	1800	1300	890
TC-MPN	38	240	2400	240
TC-MF	19	11	12	11
FC-MF	0	0	1	0
FS-MF	44	45	64	71

Coliform were isolated and identified as Citrobacter Amalonaticus, Enterobacter cloacae and citrobacter freundii.

A non-coliform, Proteus Vulgaris, was isolated and is generally associated with putrification.

Ellen P Flanagan
E. Flanagan,
Chief Microbiologist

Originated by:


D. Ptak,
Microbiologist IV

EF:dw

CITY OF CHICAGO
DEPARTMENT OF WATER
PURIFICATION DIVISION LABORATORIES
CHEMISTRY UNIT

Date: 4-8-93

Date collected: 3-19-93
Collected by: D. Evangelista
Date Rec'd in Lab: 3-19-93

Sample Source: Well Sample
Location: 956 E. 138th St.
Submitted by: WQSS

213V p.3

COMPREHENSIVE ANALYSIS

WQSS number	Q1272	Q1273
Lab No.	3C677	3C678
Sample	Initial	Flush
	K-Tap	K-Tap
<u>PARAMETER</u>		
Turbidity, TU	0.50	0.40
Odor	2DM	2M
pH, Std. Units	8.68	8.74
Alkalinity, PHTH	4	6
Alkalinity, Total	275	278
Fluoride, mg/L	3.02	3.10
Phosphate, Total mg/L	0.041	0.043
Conductivity, umhos	630	634
Calcium, mg/L	3.2	3.1
Magnesium, mg/L	1.2	1.2
Potassium, mg/L	3.7	3.7
Sodium, mg/L	153	150
Residue, Total, mg/L	391	398
Oxygen Demand, chem, mg/L	<5	<5
Nitrogen, ammonia, mg/L	0.21	0.21
Nitrogen, Nitrite/nitrate, mg/L	<0.1/<0.1	<0.1/<0.1
Nitrogen, TKN, mg/L	0.29	0.27
Cyanide, mg/L	<0.002	<0.002
Radioactivity, Beta, pCi/L		
Radioactivity, Alpha, pCi/L		

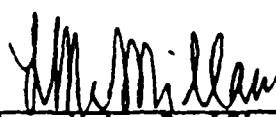
WQSS number
Lab No.
PARAMETER

Q1272
3C677

Q1273
3C678

Aluminum, ug/L	124	62
Arsenic, ug/L	13	13
Barium, ug/L	<50	<50
Boron, ug/L	10	<2
Cadmium, ug/L	<1	<1
Chromium, ug/L	<3	<3
Cobalt, ug/L	<1	<1
Copper, ug/L	<3	<3
Iron, Total, ug/L	22	15
Lead, ug/L	<3	<3
Lithium, ug/L	<1	<1
Manganese, ug/L	<1	<1
Mercury, ug/L	<0.5	<0.5
Nickel, ug/L	57	57
Selenium, ug/L	6	7
Strontium, ug/L	56	62
Zinc, ug/L	28	28

Analyst: Staff


Director, Water Purification Labs.


Chief Water Chemist


Engineer of Water Purification

CITY OF CHICAGO
DEPARTMENT OF WATER
PURIFICATION DIVISION LABORATORIES
CHEMISTRY UNIT

Date: March 30, 1993

Date collected: 3-19-93
Collected by: Staff
Date Rec'd in Lab: 3-19-93

Sample Source: Well Sample
Location: 956 E. 138th St.
Submitted by: WQSS

SYNTHETIC ORGANIC COMPOUNDS: COMPREHENSIVE SURVEY

PESTICIDES:

Gamma-BHC (Lindane)	<0.01
Heptachlor	<0.01
Heptachlor Epoxide	<0.01
Aldrin	<0.01
Dieldrin	<0.05
p,p'-DDT	<0.05
Endrin	<0.10
Methoxychlor	<0.10
Chlordane	<0.10
Toxaphene	<1.00
Hexachlorobenzene	<0.10
Hexachlorocyclopentadiene	<0.05
Total PCB's	<0.50


HERBICIDES:

Alachlor	<0.05
Atrazine	<0.05
Butachlor	<0.05
Metolachlor	<0.02
Metribuzin	<0.05
Pentachlorophenol	<0.2
Propachlor	<0.02
Simazine	<0.05

Di(2-ethyl hexyl)adipate	<0.05
Benz[a]anthracene	<0.02
Benzo[a]pyrene	<0.5

All results reported in ug/L.


Analyst: N. Hammond



Director, Water Purification Labs.



Chief Water Chemist



Engineer of Water Purification

